



120W PDRD Series

Features



DIMENSIONS: 100(H)*110(D)*90(W)mm
WEIGHTS: 820g

- Intelligent Memory/ Alarm Power
- Voltage/ Current/ Temp./ Running time Digital display
- Convection cooled
- Easy mounting (one-step installation)
- Unique at back up function
- RDY signal (normal open & close of Relay contact at 1A)
- Isolation between the RDY connection signal and the Primary/Secondary side
- Separation of AC and DC, Excellent of Electromagnetic Compatible
- RoHS & EMI test and strictness on quality
- 2 year Warranty
- Split rail & Series connection possible
- Output modify range: 3V~200VDC

General specifications

INPUT

Input range	90~264VAC 127~380VDC
Input frequency	47~63Hz
Inrush current (25° C)	20A/110VAC 40A/220VAC
Power Factor	95% Min.

OUTPUT

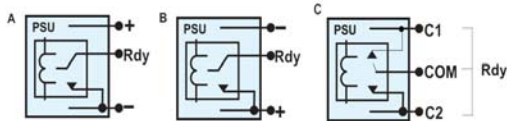
Hold-up time	16mS
Short protection	Autorecovery
Overload protection	Automatic power limited
Over voltage protection	Autorecovery
Power Ready Signal (Optional)	
Redundant function (Optional)	

Detail specifications

120 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P. Trip point
		Min.	Rated	Max.					
PDRD-12100A	V1: +12V ±10%	0A	10A	10A	100mVp-p	±1%	±1%	73% Min.	15 ~ 18V
PDRD-2450A	V1: +24V ±10%	0A	5A	5A	150mVp-p	±1%	±1%	75% Min.	27.6 ~ 31V
PDRD-4825A	V1: +48V ±10%	0A	2.5A	2.5A	250mVp-p	±1%	±1%	76% Min.	52 ~ 58V

Rdy Connection



A: Non-display PSU, Rdy Internal Connection of T Type Terminal Block
B: Non-display PSU, Rdy Internal Connection of E Type Terminal Block
C: Display PSU, Rdy Internal Connection

Please Choose Fit Function, And Fill In The Blank With Suitable Words.

Order Model: PDRD-12100A
Optional Function:
Terminal Block: "T": PCB Barrier Terminal Block
"E": Mini Terminal Block
Without Function: "N"
Power Ready Signal and Redundant Function "D": Digital Display type Din Rail Power Supply

EMC Standards

EN55022 CLASS B
EN61000-3-2, EN61000-3-3
EN55024(IEC61000-4-2,
IEC61000-4-3, IEC61000-4-4
IEC61000-4-5, IEC61000-4-6
IEC61000-4-8, IEC61000-4-11)

Safety Standards

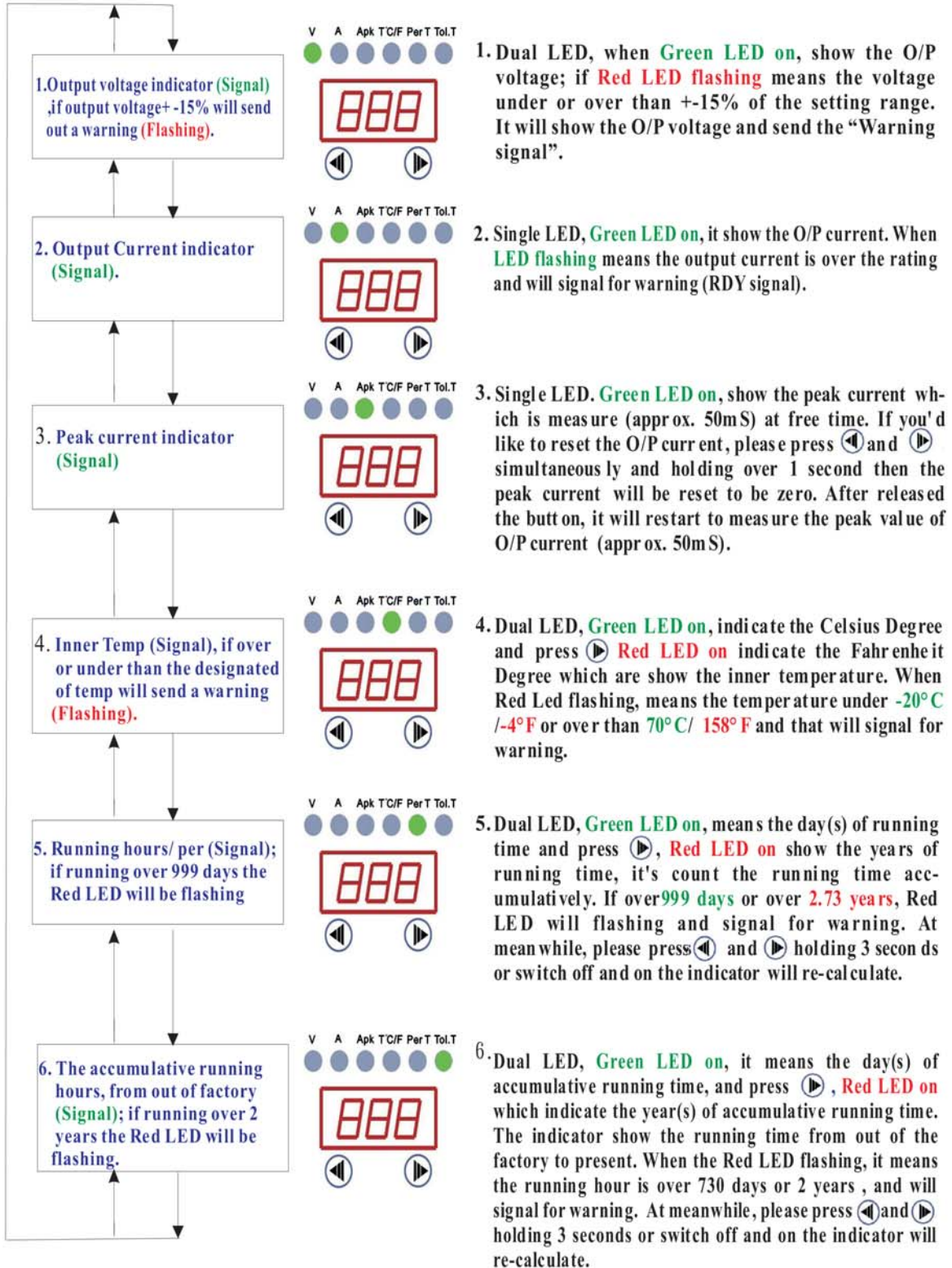
UL 60950 APPROVAL
CSA 60950 APPROVAL
CE Marking

Environments

Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95% RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

- NOTE:**
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 110VAC input. (Redundant function Sepc. 0.6V Add.)
 4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 110VAC input.
 5. Efficiency is measured at rated load and 110VAC input [the above form is Non-backup function power, a formula for the efficiency of backup function model is the rated power/ (the rated power/ the efficiency of non-backup function+ the rated output current*0.6)].
 6. Hold-up time is measured at rated load and 110VAC input.

Instruction

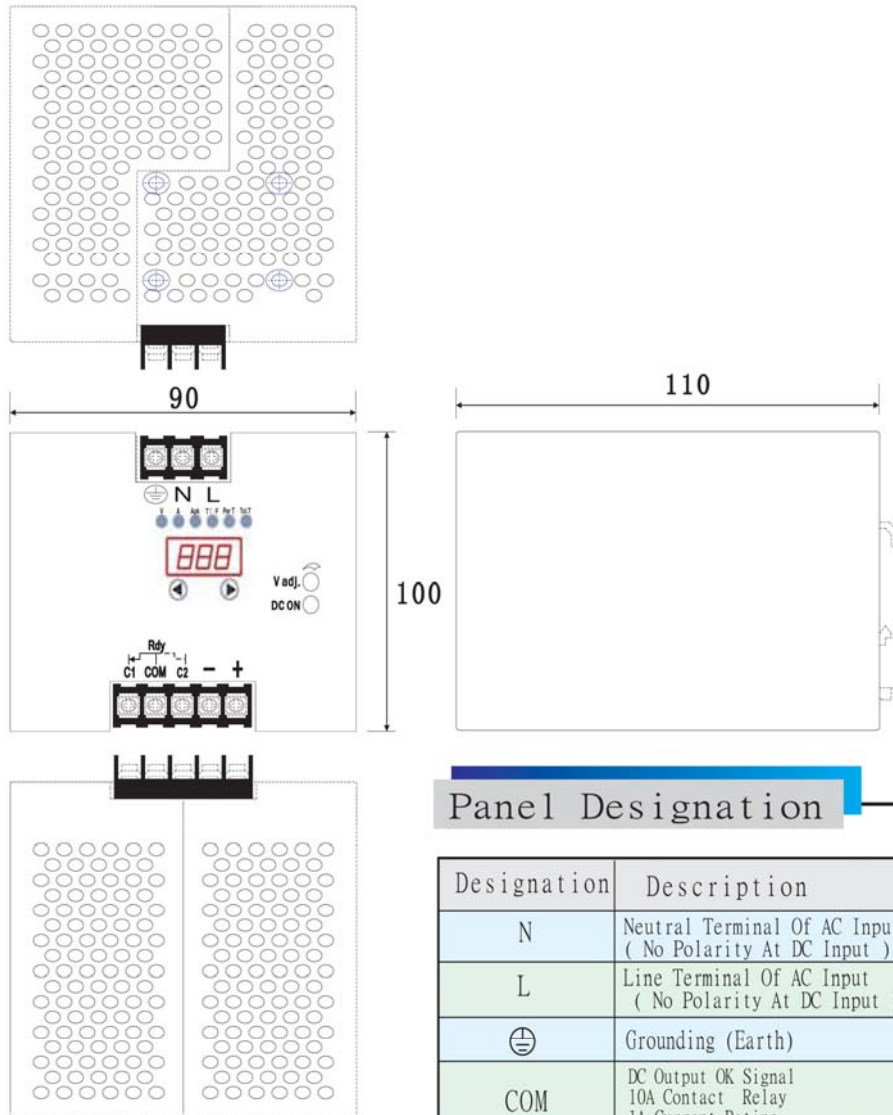


1. Dual LED, when **Green LED on**, show the O/P voltage; if **Red LED flashing** means the voltage under or over than $\pm 15\%$ of the setting range. It will show the O/P voltage and send the "Warning signal".
2. Single LED, **Green LED on**, it show the O/P current. When **LED flashing** means the output current is over the rating and will signal for warning (RDY signal).
3. Single LED. **Green LED on**, show the peak current which is measure (approx. 50mS) at free time. If you'd like to reset the O/P current, please press **◀** and **▶** simultaneously and holding over 1 second then the peak current will be reset to be zero. After released the button, it will restart to measure the peak value of O/P current (approx. 50mS).
4. Dual LED, **Green LED on**, indicate the Celsius Degree and press **▶** **Red LED on** indicate the Fahrenheit Degree which are show the inner temperature. When **Red LED flashing**, means the temperature under $-20^{\circ}\text{C} / -4^{\circ}\text{F}$ or over than $70^{\circ}\text{C} / 158^{\circ}\text{F}$ and that will signal for warning.
5. Dual LED, **Green LED on**, means the day(s) of running time and press **▶**, **Red LED on** show the years of running time, it's count the running time accumulatively. If over **999 days** or over **2.73 years**, **Red LED** will flashing and signal for warning. At meanwhile, please press **◀** and **▶** holding 3 seconds or switch off and on the indicator will re-calculate.
6. Dual LED, **Green LED on**, it means the day(s) of accumulative running time, and press **▶**, **Red LED on** which indicate the year(s) of accumulative running time. The indicator show the running time from out of the factory to present. When the **Red LED flashing**, it means the running hour is over 730 days or 2 years, and will signal for warning. At meanwhile, please press **◀** and **▶** holding 3 seconds or switch off and on the indicator will re-calculate.



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Mechanical Details



Panel Designation

Designation	Description
N	Neutral Terminal Of AC Input (No Polarity At DC Input)
L	Line Terminal Of AC Input (No Polarity At DC Input)
⊕	Grounding (Earth)
COM	DC Output OK Signal 10A Contact Relay 1A Current Rating
C1	Normal Close Connection
C2	Normal Open Connection
-	DC Negative Output Terminal
+	DC Positive Output Terminal
V adj .	Potentiometer For Output Voltage
DC ON	Green LED Indicator

CASE NO:CS1120M
UNIT: mm
DIMENSIONS:
100(H)x110(D)x90(W) mm
MATERIAL: ALUMINUM
COLOUR: ALUMINUM